From the INTERNATIONAL SEARCHING AUTHORITY

To: MODIANO & ASSOCIATI Attn. Modiano, Guido Via Meravigli, 16 I-20123 Milano

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION

ITALY	
	(PCT Rule 44.1)
	Date of mailing (day/month/year) 06/12/2004
Applicant's or agent's file reference	
38735/SM/ch	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No.	International filing date
PCT/EP2004/009973	(day/month/year) 07/09/2004
Applicant	
URETEK S.R.L.	

1. X	The applicant is hereby notified that the international search report and the written opinion of the international Searchin Authority have been established and are transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):

The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.

International Bureau of WIPO, 34 chemIn des Colombettes Where? Directly to the 1211 Geneva 20, Switzerland, Fascimile No.: (41-22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.

With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. Reminders

Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the International Searching Authority



European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

Authorized officer

Line Wagnersen

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220		
38735/SM/ch	ACTION	as well as, where applicable, item 5 below.		
International application No.	International filing date (day/month/ye	(Earliest) Priority Date (day/month/year)		
PCT/EP2004/009973	07/09/2004	07/11/2003		
Applicant				
URETEK S.R.L.				
This International Search Report has been according to Article 18. A copy is being tra		ng Authority and is transmitted to the applicant		
This International Search Report consists	of a total of4 sheets	.		
X It is also accompanied by	a copy of each prior art document cited	in this report.		
Basis of the report a. With regard to the language, the language in which it was filed, unlo	international search was carried out on ess otherwise indicated under this item	the basis of the international application in the		
The international this Authority (Rul		translation of the international application furnished to		
b. With regard to any nucleo	otide and/or amino acid sequence dis	closed in the international application, see Box No. I.		
2. Certain claims were four	nd unsearchable (See Box II).	•		
3. Unity of invention is lack	king (see Box III).			
4. With regard to the title,				
X the text is approved as su	bmitted by the applicant.			
the text has been establish	ned by this Authority to read as follows:			
5. With regard to the abstract,				
X the text is approved as sul	• • • • • • • • • • • • • • • • • • • •			
may, within one month from	med, according to Hule 38.2(b), by this a m the date of mailing of this internation	Authority as it appears in Box No. IV. The applicant all search report, submit comments to this Authority.		
6. With regards to the drawings,				
a. the figure of the drawings to be pr	ublished with the abstract is Figure No.	10		
X as suggested by the	ne applicant.			
	Authority, because the applicant failed	45		
	s Authority, because this figure better cl e published with the abstract.	naracterizes the invention.		
inone of the lightes is to be	patrioned with the aboliact.			

INTERNATIONAL SEARCH REPORT

International Application No PCT/FP2004/009973

PCT/EP2004/009973 A. CLASSIFICATION OF SUBJECT MATTER IPC 7 E02D3/12 E02D E02D29/02 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 E02D Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, PAJ, WPI Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Category 9 Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. PATENT ABSTRACTS OF JAPAN X 1-5 vol. 0180, no. 44 (M-1547) 24 January 1994 (1994-01-24) & JP 5 272126 A (OKABE CO LTD), 19 October 1993 (1993-10-19) 6-72 abstract EP 0 851 064 A (URETEK S R L) χ 1 July 1998 (1998-07-01) column 3, line 30 - column 3, line 45 EP 1 314 824 A (URETEK S R L) χ 1 28 May 2003 (2003-05-28) page 3, line 22 - page 4, line 16 GB 2 135 721 A (GKN KELLER GMBH) 1 X 5 September 1984 (1984-09-05) claims 1-9; figure 1 -/--Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but "A" document defining the general state of the art which is not considered to be of particular relevance cited to understand the principle or theory underlying the invention earlier document but published on or after the international "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention citation or other special reason (as specified) cannot be considered to involve an inventive step when the document is combined with one or more other such docudocument referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 06/12/2004 29 November 2004 Name and mailing address of the ISA Authorized officer

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European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016

Nilsson, L

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/009973

C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	PATENT ABSTRACTS OF JAPAN vol. 0176, no. 67 (M-1524), 9 December 1993 (1993-12-09) & JP 5 222717 A (OKABE CO LTD), 31 August 1993 (1993-08-31) abstract; figures 3,4	1
	PATENT ABSTRACTS OF JAPAN vol. 0145, no. 19 (M-1048), 14 November 1990 (1990-11-14) & JP 2 217518 A (SHIMIZU CORP), 30 August 1990 (1990-08-30) abstract	1-72

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BEST AVAILABLE COPY

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/EP2004/009973

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
JP 5272126	A	19-10-1993	NON	E	
EP 0851064	A	01-07-1998	IT	1286418 B1	
			ΑT	181384 T	15-07-1999
			AT	250170 T	15-10-2003
			AU	731637 B2	05-04-2001
			AU	5751998 A	29-06-1998
			CA	2273345 A1	11-06-1998
			DE	69700280 D1	22-07-1999
			DE	69700280 T2	04-11-1999
			DE	69724994 D1	23-10-2003
			WO	9824982 A1	11-06-1998
			ΕP	0851064 A1	01-07-1998
			EP	0941388 A1	15-09-1999
			ES	2132983 T3	16-08-1999
			GR	3030659 T3	29-10-1999
			HU	0000359 A2	28-06-2000
			JP	2001510514 T	31-07-2001
			PL	186495 B1	30-01-2004
			SI	851064 T1	31-10-1999
			US	2002098042 A1	25-07-2002
EP 1314824	Α	28-05-2003	IT	MI20012496 A1	27-05-2003
•		•	BR	0214435 A	03-11-2004
			CA	2467630 A1	05-06-2003
			WO	03046296 A1	05-06-2003
			EP	1314824 A1	28-05-2003
GB 2135721	Α	05-09-1984	DE	3307619 A1	11-10-1984
•			ΑT	387811 B	28-03-1989
			AT	71484 A	15-08-1988
JP 5222717	Α	31-08-1993	JP	2982989 B2	29-11-1999
JP 2217518	Α	30-08-1990	JP	2673153 B2	 05-11-1997

PATENT COOPERATION TREATY

From	the RNATIONAL SEA	ARCHING AUTH	ORITY			
То:				PCT WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)		
	see form	PCT/ISA/220				
				Date of mailing (day/month/year) see	e form PCT/ISA/210 (second sheet)	
,	licant's or agent's file form PCT/ISA/2			FOR FURTHER ACTION See paragraph 2 below		
International application No. International filing date (PCT/EP2004/009973 07.09.2004				Priority date (day/month/year) 07.11.2003		
1	national Patent Clas 2D3/12, E02D29		both national classification	and IPC		
	licant ETEK S.R.L.					
1.	This opinion c	ontains indication	ons relating to the follo	owing items:		
	Box No. Ⅰ	Basis of the op	inion			
	☑ Box No. II	Priority		•		
	☐ Box No. III	Non-establishn	nent of opinion with rega	ard to novelty, inventiv	e step and industrial applicability	
	☐ Box No. IV	Lack of unity of	f invention			
	⊠ Box No. V	Reasoned state applicability; cit	ement under Rule 43 <i>bis</i> tations and explanations	.1(a)(i) with regard to supporting such state	novelty, inventive step or industrial ement	
	☐ Box No. VI	Certain docum	ents cited			

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

□ Box No. VII Certain defects in the international application
 □ Box No. VIII Certain observations on the international application

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:

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European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465 **Authorized Officer**

Nilsson, L

Telephone No. +49 89 2399-2460



BEST AVAILABLE COF

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/009973

_			
	Box	No	p. I Basis of the opinion
1.	With the I	re anç	gard to the language , this opinion has been established on the basis of the international application in guage in which it was field, unless otherwise indicated under this item.
		lan	is opinion has been established on the basis of a translation from the original language into the following guage , which is the language of a translation furnished for the purposes of international search or roles 12.3 and 23.1(b)).
2.			gard to any nucleotide and/or amino acid sequence disclosed in the international application and ary to the claimed invention, this opinion has been established on the basis of:
	a. ty	pe	of material:
		3	a sequence listing
]	table(s) related to the sequence listing
	b. fo	rma	at of material:
)	in written format
)	in computer readable form
	c. tin	ne	of filing/furnishing:
		3	contained in the international application as filed.
	. []	filed together with the international application in computer readable form.
]	furnished subsequently to this Authority for the purposes of search.
3.		has cop	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto is been filed or furnished, the required statements that the information in the subsequent or additional bies is identical to that in the application as filed or does not go beyond the application as filed, as propriate, were furnished.
4.	Addi	tior	nal comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/009973

_	Bo	x No. II	Priority		- · · · · · · · · · · · · · · · · · · ·		
1.	<u> </u>		llowing document h	as not bee	n furnished	 d:	
	□ copy of the earlier application whose priority has been claimed (Rule 43 <i>bis</i> .1 and 66.7(a)).						
			translation of the	arlier appl	ication who	ose priority	has been claimed (Rule 43bis.1 and 66.7(b)).
							lidity of the priority claim. This opinion has e relevant date is the claimed priority date.
2.	This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43 <i>bis.</i> 1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.						
3.	Ado	ditional d	observations, if nec	essary:			
		x No. V ustrial					with regard to novelty, inventive step or rting such statement
1.	Sta	tement					
	Nov	velty (N)		Yes:	Claims	6-72	
		· • · · · · ·	,	No:	Claims	1-5	
	inve	entive s	tep (IS)	Yes:	Claims		
			,	No:	Claims	6-72	
	Indi	ustrial a	pplicability (IA)	Yes:	Claims	1-72	
				No:	Claims		
2.	Cita	ations a	nd explanations				

see separate sheet

Re Item V.

- 1) The following documents are referred to in this communication:
 - D1: PATENT ABSTRACTS OF JAPAN vol. 0180, no. 44 (M-1547), 24 January 1994 (1994-01-24) &; JP 5 272126 A (OKABE CO LTD), 19 October 1993 (1993-10-19)
 - D2: EP 0 851 064 A (URETEK S R L) 1 July 1998 (1998-07-01)
 - D3: EP 1 314 824 A (URETEK S R L) 28 May 2003 (2003-05-28)
 - D4: GB 2 135 721 A (GKN KELLER GMBH) 5 September 1984 (1984-09-05)
 - D5: PATENT ABSTRACTS OF JAPAN vol. 0176, no. 67 (M-1524), 9 December 1993 (1993-12-09) &; JP 5 222717 A (OKABE CO LTD), 31 August 1993 (1993-08-31)
 - D6: PATENT ABSTRACTS OF JAPAN vol. 0145, no. 19 (M-1048), 14 November 1990 (1990-11-14) &; JP 2 217518 A (SHIMIZU CORP), 30 August 1990 (1990-08-30)
- 2) The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.

 Document D1 discloses (the references in parenthesis applying to this document):
 - A method for increasing the strength of a volume of soil, particularly for containing and supporting excavation faces, whereby it comprises at least one reinforcement step that comprises the following steps:
 - a step for preparing receptacles for a reinforcement structure, in which a plurality of mutually spaced reinforcement holes are formed, said holes being arranged substantially vertically or inclined with respect to vertical direction in the volume of soil to be strengthened;
 - a step for inserting the reinforcement structure, during which reinforcement elements are inserted in said reinforcement holes;
 - a step for locking the reinforcement structure, during which a synthetic locking substance that expands pa chemical reaction is injected into said reinforcement holes, said substance being adapted to bond said reinforcement elements with the surrounding soil. (see the abstract together with the figures)
- DEPENDENT CLAIMS 2-5
 Dependent claims 2-5 do not contain any features which, in combination with the

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/EP2004/009973

features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step (Article 33(2) and (3) PCT).

- 4) Inasmuch as the features of dependent claims 6-72 are not directly known from D1, they obviously concern only minor modifications thereto which come within the customary practice followed by a person skilled in the art and which cannot therefore be regarded as inventive (Article 33 (3) PCT). Consequently, dependent claims 6-72 do not appear to contain any additional features which, in combination with the features of any claim to which they refer, involve an inventive step.
- 5) Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the documents D1-D6 is not mentioned in the description, nor are these documents identified therein.
- 6) The features of the claims are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).